

Title (en)

SHEET MOLDING COMPOUND AND FIBER-REINFORCED COMPOSITE MATERIAL

Title (de)

BAHNFORMVERBINDUNG UND FASERVERSTÄRKTES VERBUNDSTOFFMATERIAL

Title (fr)

MÉLANGE À MOULER EN FEUILLES ET MATÉRIAU COMPOSITE RENFORCÉ PAR DES FIBRES

Publication

EP 3838970 A1 20210623 (EN)

Application

EP 19889684 A 20191101

Priority

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- JP 2019042995 W 20191101

Abstract (en)

The present invention enables the achievement of: an SMC which has excellent flexibility, while being suppressed in tackiness; and a fiber-reinforced composite material which uses this SMC, thereby being reduced in voids after molding. In order to achieve the above, a sheet molding compound according to the present invention has the configuration described below. Specifically, a sheet molding compound according to the present invention is formed from reinforcing fibers and a resin composition, and has a weight content of the fibers of from 40% to 60% (inclusive) and an air bubble content of from 5% by volume to 30% by volume (inclusive), while satisfying the formulae below in a dynamic viscoelasticity measurement at 25°C. $10 < \sup > 5 < \sup > \text{Pa} \leq G'(\text{s}) \leq 10 < \sup > 9 < \sup > \text{Pa}$ $1 \leq G'(\text{s}) / G''(\text{s}) \leq 5$ $G'(\text{s})$: storage elastic modulus (Pa) of sheet molding compound at 25°C $G''(\text{s})$: loss elastic modulus (Pa) of sheet molding compound at 25°C

IPC 8 full level

C08J 5/04 (2006.01)

CPC (source: EP US)

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